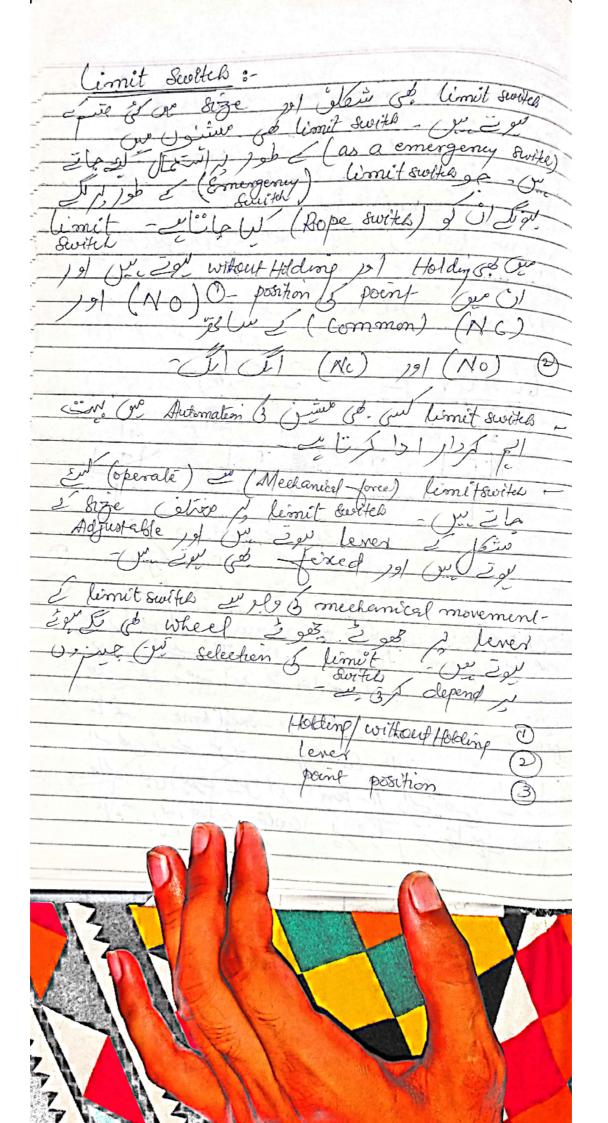
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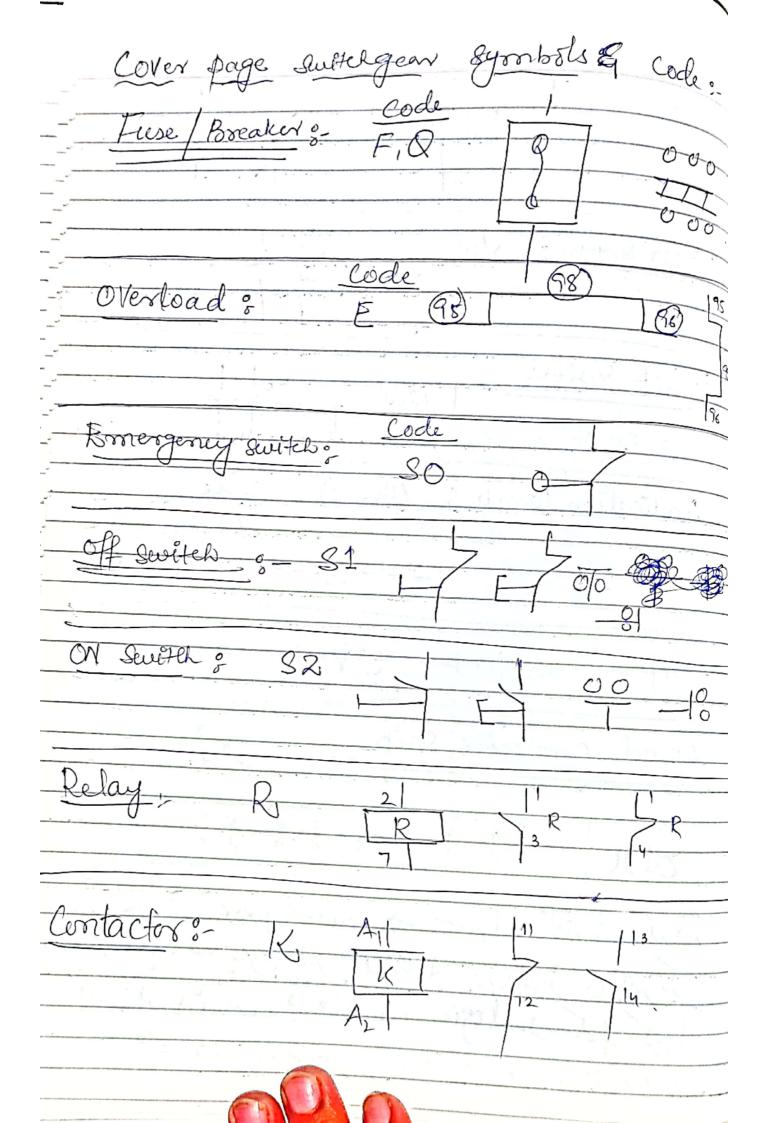
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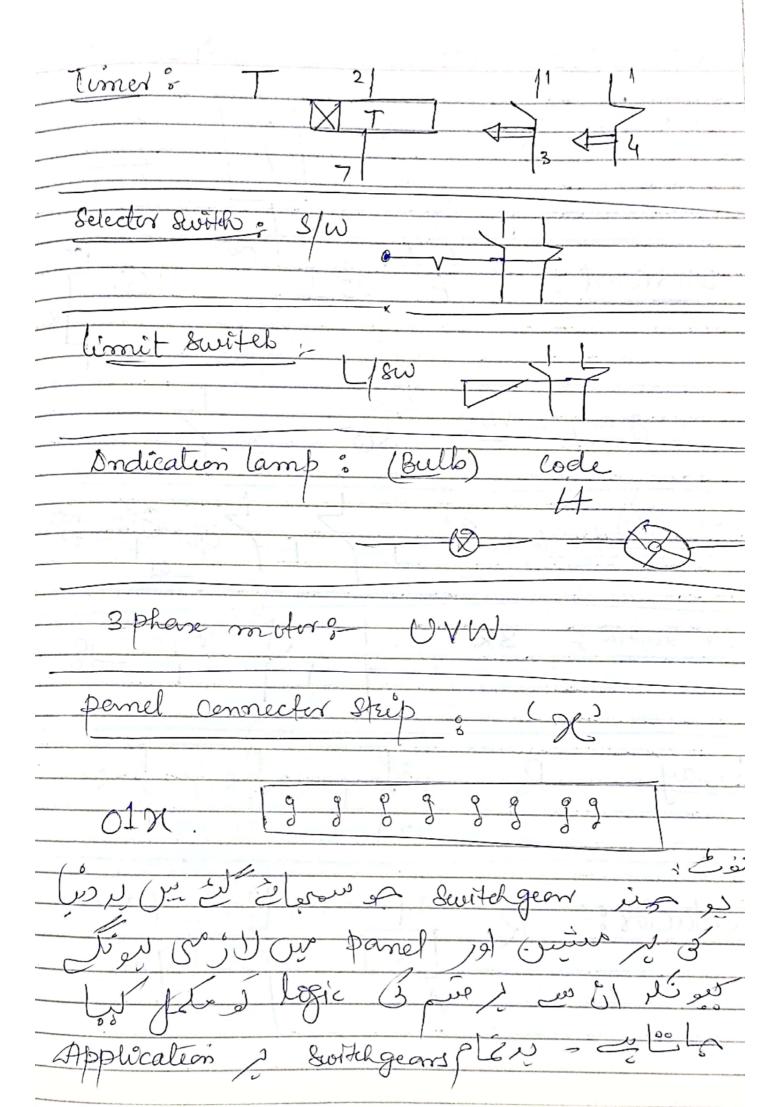


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al et sto turning control our cuiched by the delay Los 0.0/ sec سے کے list & 24 hours GOI Base (36 cs supply ce de Close 26/18/ 22 is Jan | Duritary 3 12 Lagram 2 4 65 supply our common diagram, El

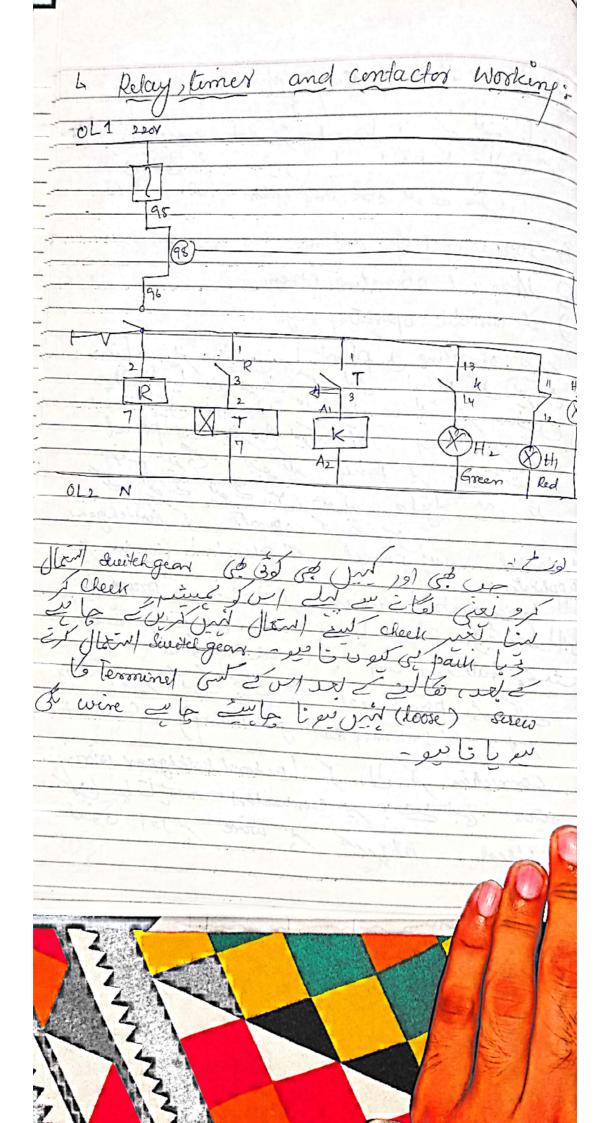
fine S, m, H. dial 12 220





- (Imposible). Etwar of Jac logic 3d selection Ys convention at diagram (4) 8 (8) 220

011 220 H2 olz N ON Switchgear pl 2204 022 N



Machine or Motor operating system? مورثر کے جلا og operating system. operating system. operating & plant operal (Intooned Switch gear wiring Connection J I (Extronel swikegear wrong) were /) o (vaddren 191

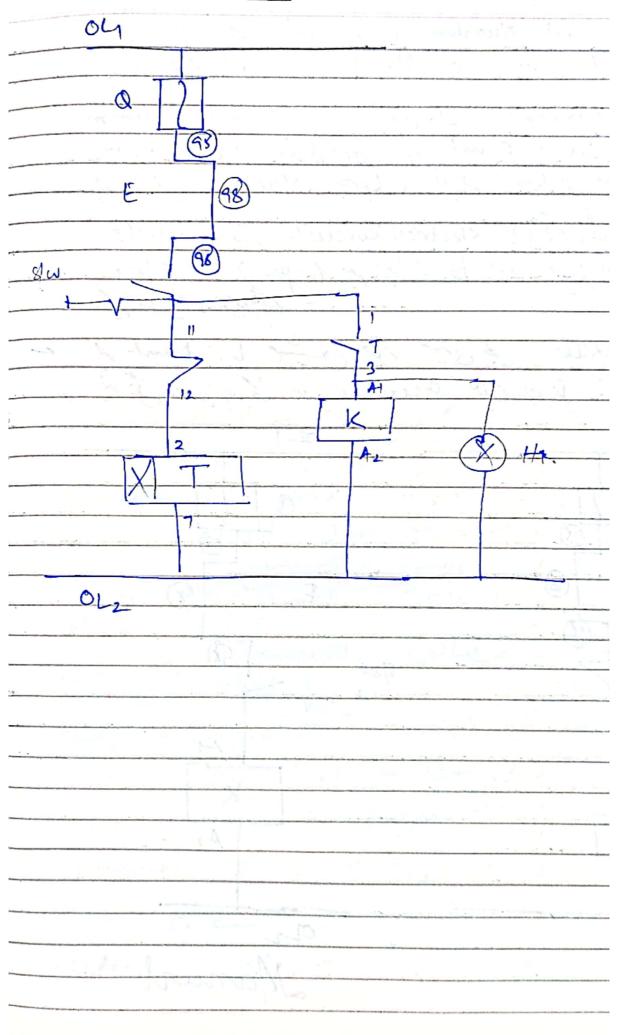
Address , 2) Number C N 12/ - 2 to diagram)

2 to 5 diagram

Connections & plant , 2/ machine & viel - viel

- viel SU lea Voltage is 625 Our Electrical cercuit in fault Electronicy in 19) lé 26 pr 10 pen ? close 011 (98)

Automatic



2 operating system step by step (online Lension control manuel 1st - t e ()=is Manual control system selector switch & selection Manuel contro Manuel _ _ tbl depeng

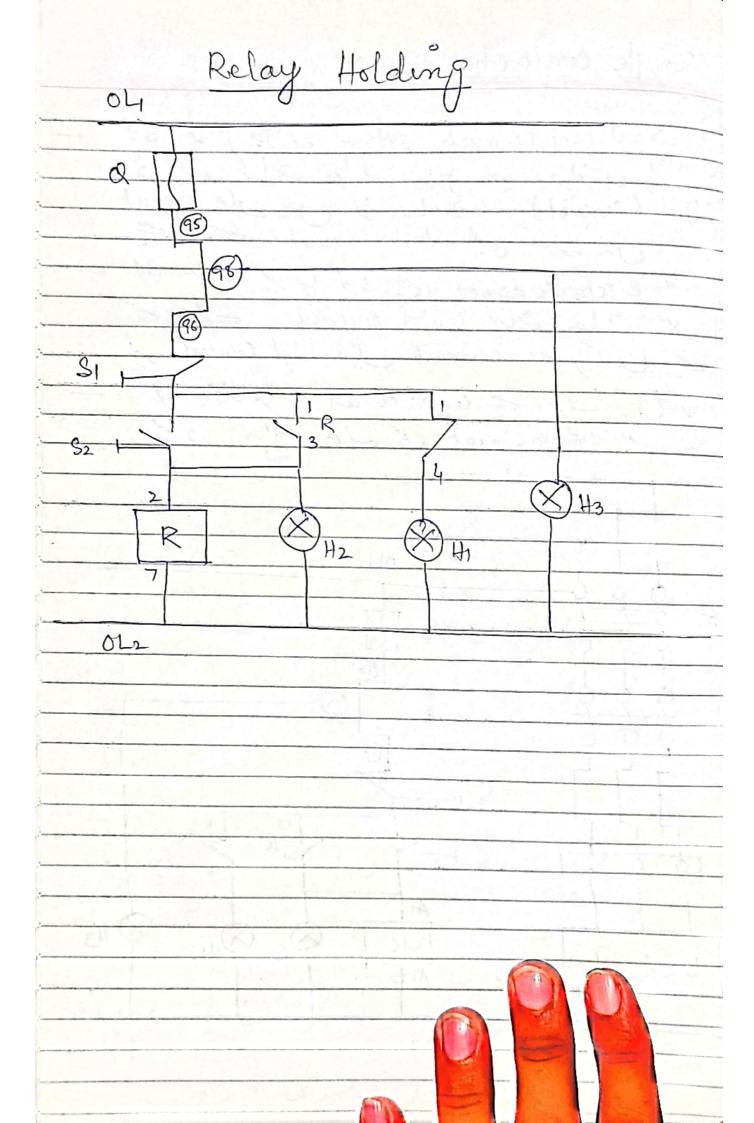
Automatic control system 3-Automalia J. Plant- 1 machine 6.35 Jelector Switch is elector switch

(Acto) 191 (Manual) selector switch

if I gelection Just (times) (Automatically) System 15 (system) Electoonic - Luby Control 2) of Controllers "L' Electronic or devices 191 - Et S depend , Sensors Ly Automatially & logic en (spirate) (Automicelly) coils (6/9/ مروای جای س on "Jos Cercuit in is lived on Get UP Lin on/off to le en con Blir Electoreal in a of Lours Mann!
Holding
Solve Color 191 ces color is to Esture of is of will your on off our () (3) Elay L Relay (iv - my the la Valien)

Mamuel - Electrical Holding it 2 Industrial circuits: Industrial circuit -: liscuit 12.62 14 5 pg 38 ع. ل المارى D·B panel cos con (D.B) (lighting) Industrial + The mix limit on off Jul 3 Industrial cercuit /c certain bolin 6 m/ gr Machine 6.8 60 ای در جوی دری مستن که جلان کا دری در ای Electronia drives Industrial us circuit (51) I lightification

of Industrial airmin In, of the Tonterview 6 gr of 00 6 5 /2 (98) Sı 13 Sz AI 01-2



single confactor power circuit: Confrol cercuil- 2 2 2) control circul-K 43 Az 062

· Toubleshooting & m/ 19/ fault complain (8)

16, 1

je ver Sector 1. Or. Industry 1. 3 2 or feulltrace - I I (5) (5 Jan - ; / [[Fault no: 12 Giff-ni Rotation 6 /19 6. C. L'operator so. 2 it (change) Stocks member 6 To Rotation & por - 2 Or to One 2 (phase) Blue 19/ Red 212 Breaker = 200 Tortexhange (phose) 25 60 20 On 6 100 1 0 Je (1) Interchange (un () 1/5/9 2 - BElow Jew Rotation 3 3 Je les Es 2 2 2 Sug Robertien

(4) poff " Jose 2/5 on sprem Jes - 2/2 - 2 Loubleshooting an Senses (1) Jis Switch geors (2 2 gr & or panel or overload.

Double test lamp In my fault 60 cm of por 191 & W. Sing Impert Supply a - 2 (We Chanded System)

2 / 2 / 2 / 2 / 3 (Mechanded System) Out 2 get connections = 1 or 2) II w Mellanical load of 2 go - July by som Jet

میں کو گئے ہے۔ آج سے دیا کے بر محدود کی میٹن میں بارنے کی اوسے کی سویا کی کیارے لیے سامب کی بیویا رہی کی اوسے کی سویا کی کیارے لیے a) le plant 10 m 1 Giv en panel is 3-1, panel) [by to just our panel in (fault tracing) Coolebeshoofing > pt 13 2 - logul - lo & panel into But por s Fault NO: 1 - 20 John Donput supply In a w Breaker 19/ 20, T Supply 11 I(v) / (on) Breaker, J fault of Gila Orin 1 J & (Trip) Breaker 1/1 191 / 191 05 - 19/28 fault Shortainel 100% peries 6 2 % (Trip) Breaker connection to so of Porealer teip of Ind & Of de Bodyshort & you de wow I Jest. jege ji fault ejge 6d. God gril e ()robe & pg 191 East the Bodyshort 5 mullimeter I Si Dog Bodyshort L 2 (ve) & centionity & selector

jed peop o'des & jus - Low Series board

Le Los les prody & just leads

Le Series board A slow (confirm) continuity

- 26 fo at d (UVW) Terminel 2 / Sead (S/13 Meles -centinuity of 2 (Sold) one by one s 1 Terminal 6 / 191 - Ento 3Took 2 (Short) 100/5 Hor of 26 ? centinuity 20 2 2 july of july 6 20 5 5 5 5 L'Erminel End lead Vides & meler - Le ch (Show) (ohms) jus is - Evilled - Med lead of terminal emes 8,45% Terminals Ugin of I (Ohms) - L' Visty of Go Ci L' Cijo Com Ohmic Value (Let of Josephanism & Poreaker 3 - Lilings Wip son Breaker Breaker of Touch a Body l'6 phase were 191 Let Je Jest, panel connected + - Ly Dy Touch w (Body) (Li Col Breaker II) - Les Wy (Prèp) Breaker

- Copy of of on of Aunilary
- Copy of the Block of Sewiter
- Copy of the place of Central 31 1 31 Fault NO: 2 overload - legy Wy (Teip) overload () I leip Melanical load) 100% (Without load) I Do I de Ampere of Phase Join U, an and 200 & le leg ung.) line (51 (5 1) - is to is got 1 1 /3 phase le pump di -de ciros 2 (po chot (least) (Seal) (Methanical) Diesel (caustic 31 in 1933 July July July -823, la Beust L L'Elle Je Har =

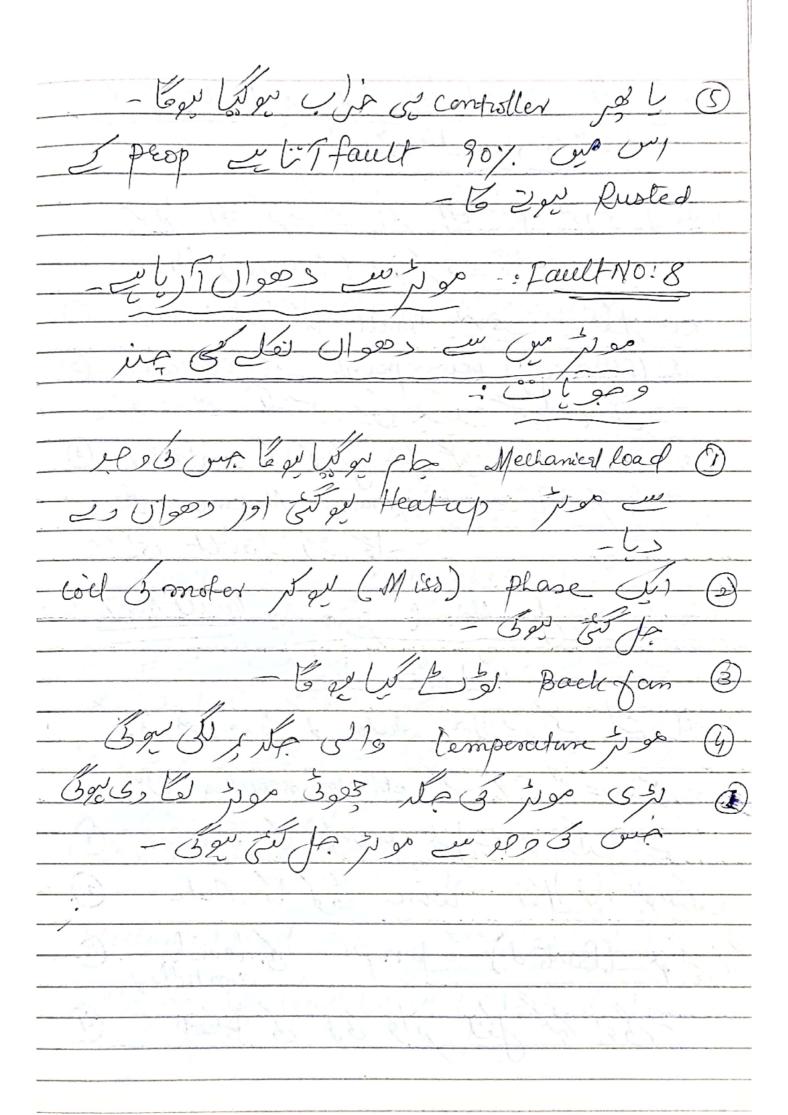
Jest John yn (teip) (overload) II -Jest John Son (operate) safety - Loge W Mechanical board of the section - loge by wind loge by without og 191 et pump stu styr still load (trip) overload le sty censrent ce cii la pump set so le styr censrent ce cii la pump set so le styr le styr le styr load si bles or panel 1 100 - Je Co fault No: 3 de complaint & Short arcuit & & Eles A - I Short colocuit 100%. I conholtsansformer 100% & 2 / July 3 2 (2) () 2) A-le exfault ou powersupply of fault is to in the contraction of its L Color de 29/12 Fuse 22 Mele true igu beip (Input supply) Porealeer to fuse I 13. 1 /2 juis 2 2/2 Trip 6 = 131

To celful- 11 191 - Le Cul (1) 90 (1) cesaul mis 3) & Electronics Trip

Les 10 -3 fe & Fault No. 4 (Bearing 5 gr (5) gr Pla ma 39 lectronic powered device () jos of 1/20 Deive (just of On who so loose connection 191 Viberating & Hammering Los -3 Fuelt NO: 5 Viberale wil Start Los 1) 1 N Kin 6 operator remove poerble fist lamp 191 & O. S (on) liscein Jun 34 /2

pouble test lamp L- who ils Bulb JE connector of 2 2 Breaker 2); 2 (Mis) . Phase (1) 11 - 30, 5 Ong 3\$ = 65 volv 09 er fault Una 2 2 Lyn (Miss) phone I connector I 2) the cable - does the cable of I (y) I connection (ye pand il ciscuit on in Double test lamp Ile Us moter 25 A-case & 2 en Breaker is & O. fault 11 - 1626/ 20 hu 222 des Cable N'N D E CO Las Cable In (Side) viss 10 / 1/2 0 0 in e side (b) 60 501 Joseph Continuity of meler 1918 (1)
Joseph Centinuity of Check Centinuity of Seal (Poreal) lead Mechanical load of we got of with - Very Wolf Con Wor (Pla) (Stull)

you off en it off por -: Fault No: 6 specialis of Sign (Sin off) en en off non - 62) ju (Breaker) Jos Coly for est Block & Fin off flashing) power point-90% - Ley (operate) Mechanism en ESI) Ja Manual 100 Fault Nos 7 panel is silla Auto I for Got is y. Ze Ze & Steeter Switches ou - L'Elingre l'a point le Selector 2 (dug les les wire 3 6 Auto greff (Rusted) prop & leve - 39 6 fei jlg 3 8 Peop.



- de l'all l'eli 1 (10 1) -(over is Ly Ly Up 200) Je w = Je 7 g .:-Jes were & Aunilary & (Contactor) 100%.

; 1 fase 6 = 1 / g .. fault NO:11 Breaker - Eg shortwiet on powercercel por l'Emotes I de Porealle de 1, or 90%. Che & Cas to en lul pour déagram, Or perne is the plant field devices L. field switchgear Confidler Electronic 35 L de 35 M Li gleroninel, & g. Legewpment gr (p) I Address go to Control power control ele 3 Obla 36 Is were is & supply & 3 en Dermoneful win II - 6 gr co de pli confirm de ce a éla dés -26 195 (de l-113) de la 200 les virt Jul diagram Address 191 Terminstno; dos diagram 2))2 [soubleshorting 3 plantL 191 Internal connections PLE

DOL Starler :off switch, on Switch, overload, Contactor Joseph Starsler - Liby Lol Starsler) (Readymade) - On Eld Lie 2 ja p 19 je de Join Jam) 63 Meclanical System in industry 3-Medanical Plo 80%. Our Dindustry Ces Control in Medanical system - et ou lo Control en of 8 Electronics 19th et ou lo - Mechanical system = 191 - Eligible - Jed Control () (move) - Ber orduction of the orl 3% F deeply 1/2/2 xmg Curl Bystem v Du Section Low. Or of) 21 2 - I Mechanical system in 2,16 - Or Trade Jol Jim Se 6) 2° Col 2 01 linous - Synchronizing system 201 Automation 3 plant Let & by step step step step - Mechamical system) - 1 Staplications clied 191 Electronics, Electrical d'Seguence & topbold control es) Instrument - el Mechanical system in. E

omical deep e position of Seguence 3

ind of orland & was flant - Lime - J. 2 Ja [earn 6 2 d. 50/ 19/ 0 perater Responsibility of operator: Plant Lyine El & Complain ou of up 6/wi 19/ 2 6 operator of One 26/2 er problem de Tid us ger of plant time 191 - 20 06 f as a) and is he will in the just de le operator n or da un Jamel (Sequence & plant to Jun Gilita 09 191 l'été operates et l'I 3 operated into plant L come in Lup Got - et le ly ple telles 2 is no Lus et plo colung le en la operater Engineer of the wife of the In John blue p, operates (5 x (51) 1/2/25 Uplos 2 5 ilos 3 speraler ابق مس کام الزس کرنابر تاہے۔ کیونل Quality 19/ 1 Cy Quality . Colley production (5) by 6 operator y 6 & maintain of

6 speraler set jus 21 1- 2 3 go /1 191 B = 63 per Elle is the smodification & operated رے دینی پرنے کی Merle jim se sur le operater Mechanical side 19/ Electrical side or knowledge 09 - Lover 1 go fault (1) 20 68. 2 la & Ct. Cubs & fault Id bys grand of the first operand - 2 1 1 6 6 0 B

Industry operating o peraling 000 operating 5)% 619.3 Plant echomical side = Impl

GearBOX :-

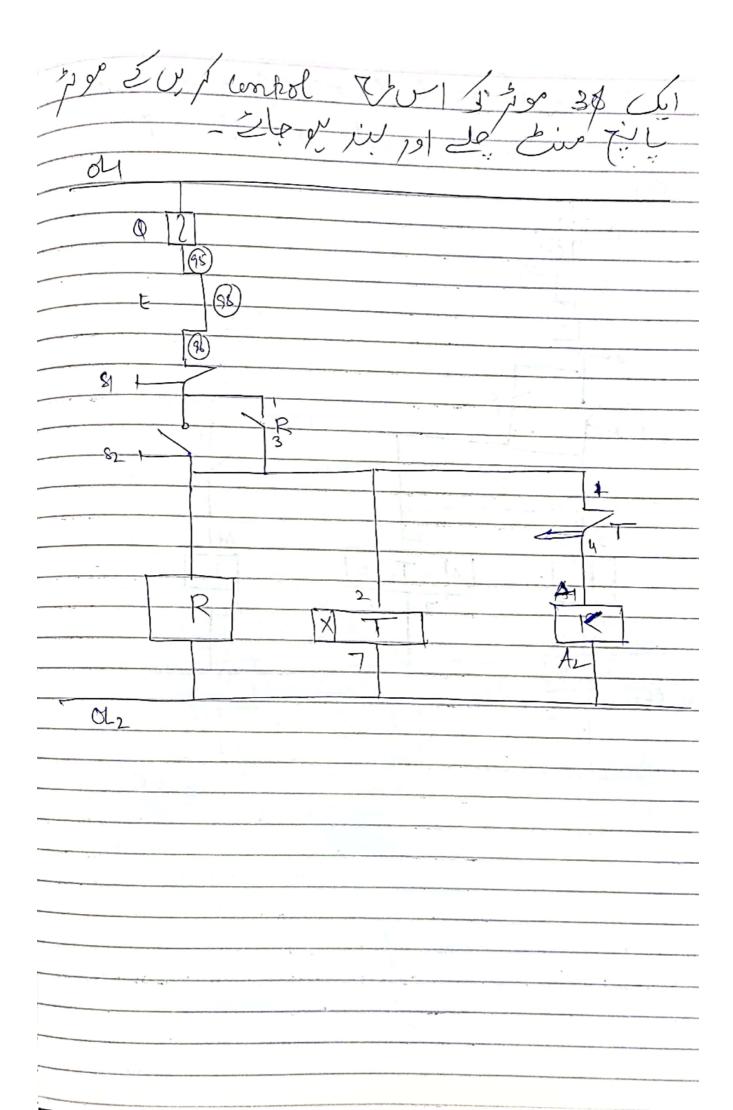
Alphing tank : poroduct 2626 Mixing tomb min 5HX 1400 Rpm Alotor 250 Rpm oil filling Gearlott Output

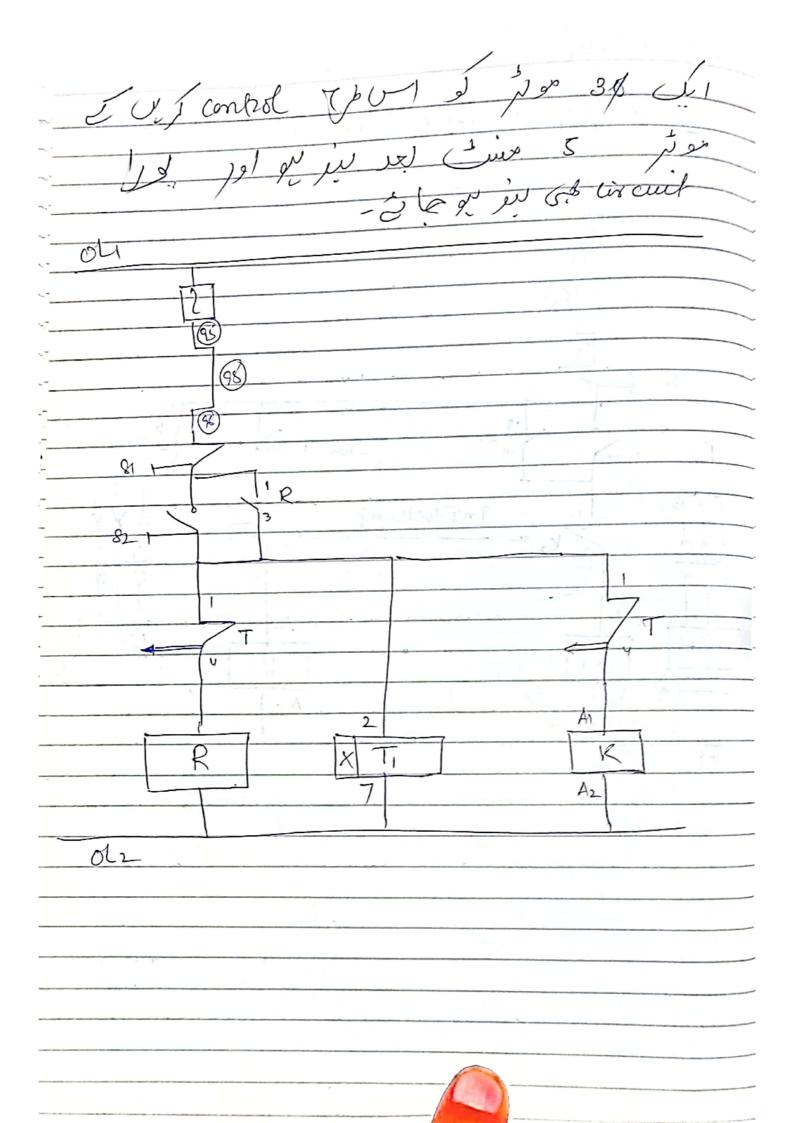
<u>Automatic time delay circuit</u> - circuit :-> L'acircuit L 04 0 (93) (28) 2 Oh

3 (98 2 AZ 01

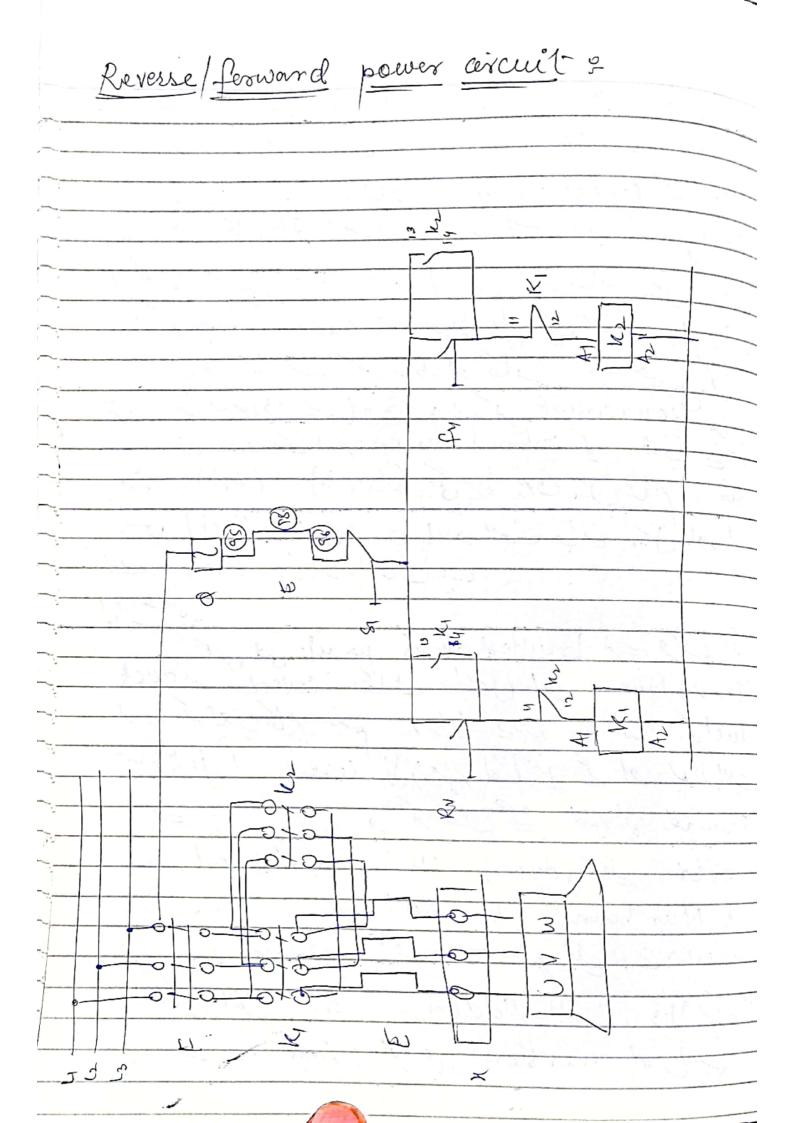
I (Automatictime) delay circuit) 011 Q (93) (98) 12 X 16 L,

por e Confol 01-1 (98) 2 012





Industrial circuit NO: 2 Circuit :enward control di **(3)** 98 8 K2 1B KT Interlocking RYB UYW A2



ile 6 in D.B L gand it is on wo power corceel 19/ conpolaries (") 1 power Lux d'Illa flam 7/9 6 1mm مح ليئ مستر موت والر استمال يمك مات بس ما July to the for the cable one sile Jos p & College of 19 50 Band on Bore is 5th tolernel weding wire play. Br by & (duef) (PVC) 19/79/ 0- 36 = 1 | Juch of buch or 1 The Expendeshootings panel 50 5 duct dueld wire ste 26th proplessed -Nov 191 & Juld (50) I cover 1 /13 000 Machine (God - 20) & Junior 12 21 Lover & (duet) (Prc) Cr. painel & & Numbering pl Address, code ! ما ورئے میں اور connector 2 of file parnel Cyly Us or Di Address of wine Il Is - L'et mention &, or diggroom of

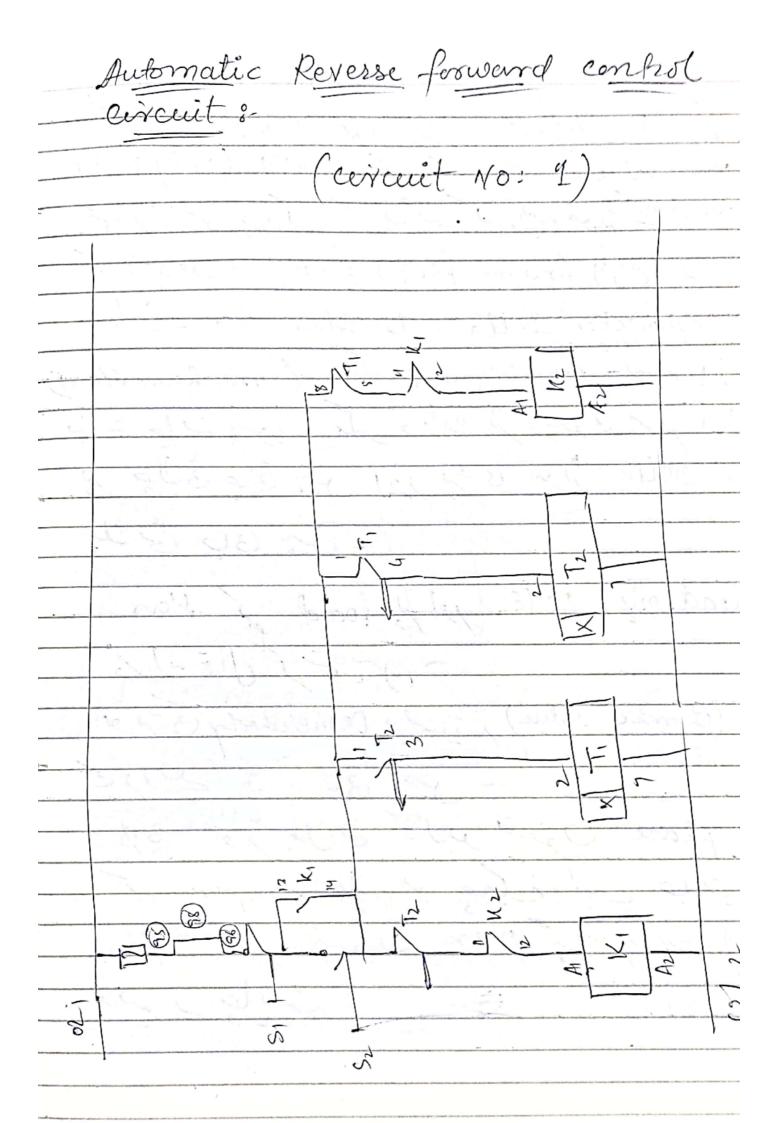
en eg et 10/ en eg (broppen) tault Coace & (comertos)-fault 1 panel - 236 5 field swifel gear PL) 91 switch g powercoering L = 36 3 centrolwering 600 00 Tormonal Address & wire 1351 dress 50 (or oliagram Tb 6 1 6 or 300 Terminal address S-C مع عائے اس ویت علی لیں لفاس ا F (centram) Three Phase Induction motor terminal

Connection of bes Cop (un per 30 Della Connection. de 3 de 12 storr - (d) pella ermine pla os or your y 2 y 2 m (or & coil 1 il 2) a (connection) Della connection is a series is a parallel current divides Devalle

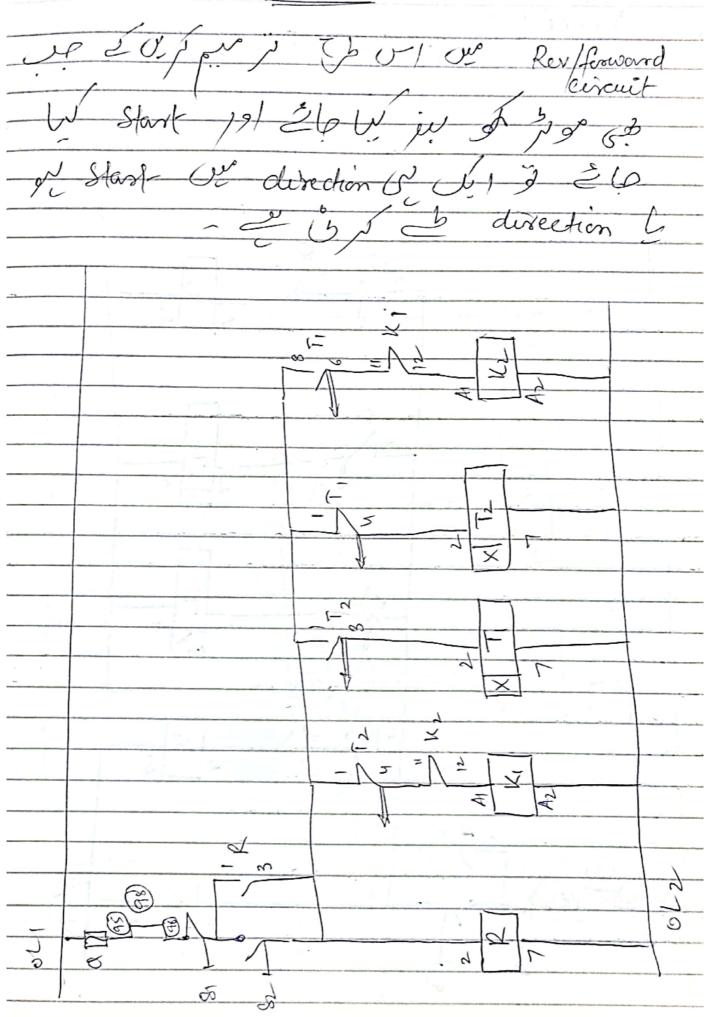
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2_ 3 No 12 سرونے جاسی

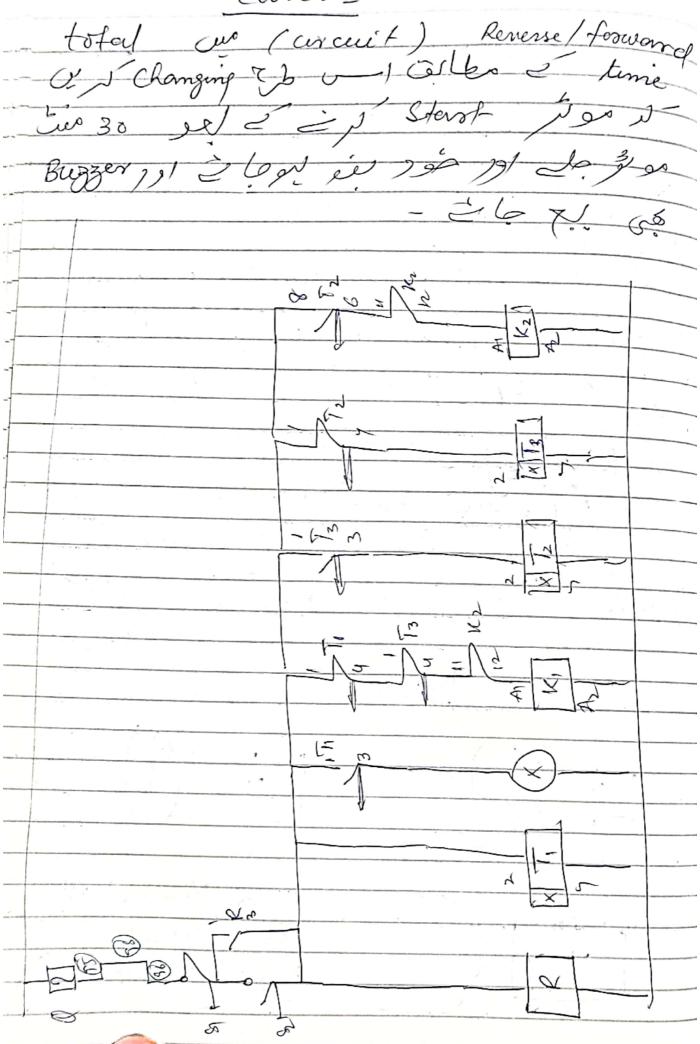
ohmic value 191 & of connection, s (50) (name plate) 3 0/ (20) (connection) Della L Stor - circle ales & Reguirement-3 (mechanicottoas) load only Della 1911, load & Harr - J. J. J. J. S. (chmic value) it of Procebleshooting 3 7 00 phase Ogi se de de 30 In Sign of De Ampere Al Ampere & plane viju je! Vii . نبور واست -



Automatic Reverse/forward (Circuit ?-circuit No; 2. 84 00

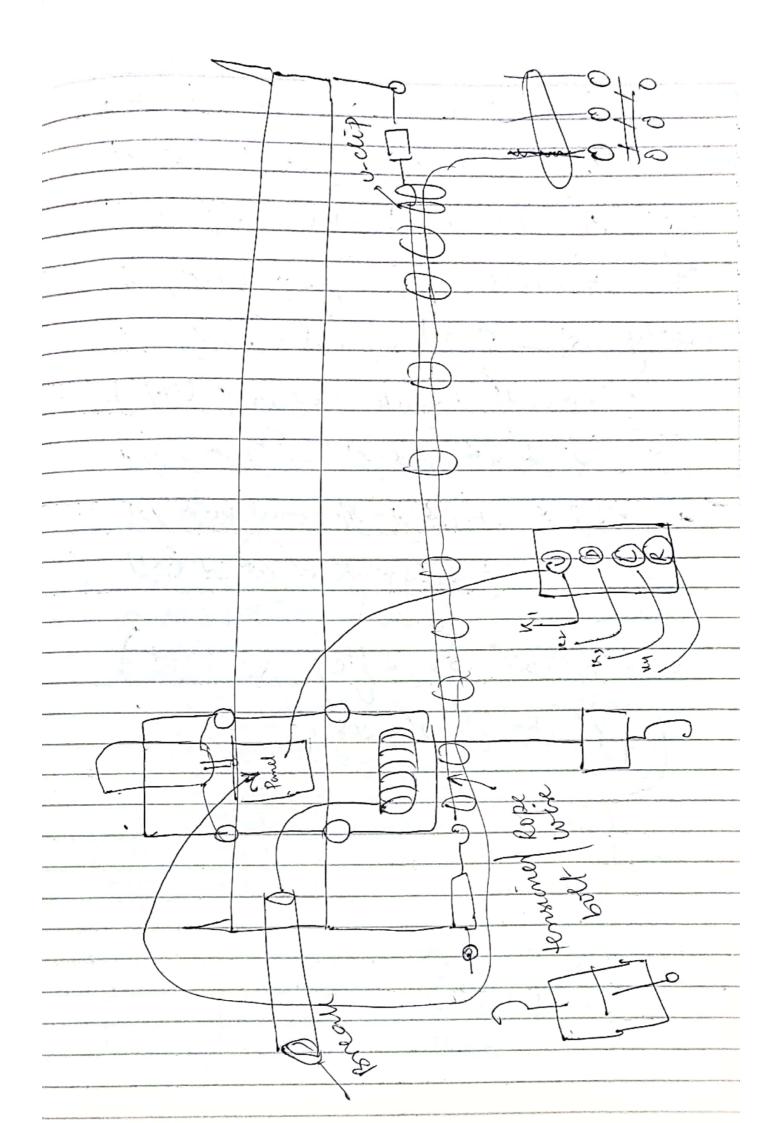


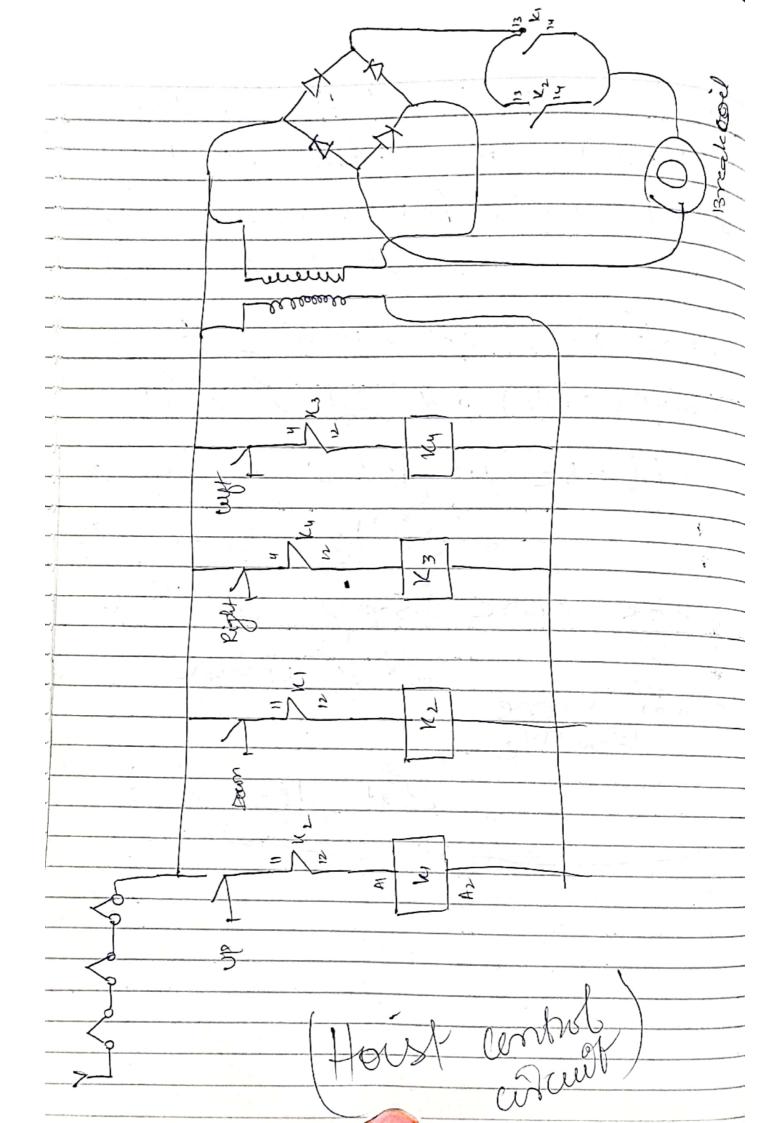
Case: II



forst control circuit Jugo 9> (gr Hoest Plans (Method) 1 (Heavymaterial)

coel on on on os (is 3) c 290 0 39 - 20 g D Mechanical breaks Un M'd w jule Scepply of کھلتا ہے اور مس ~ I Break esty 2 pgs





Suitel ou Hoest control circuie

cargo lift control circuit: 0 98) down 45 US Kζ 14 14 AI AI 1/2 -A2 Coil

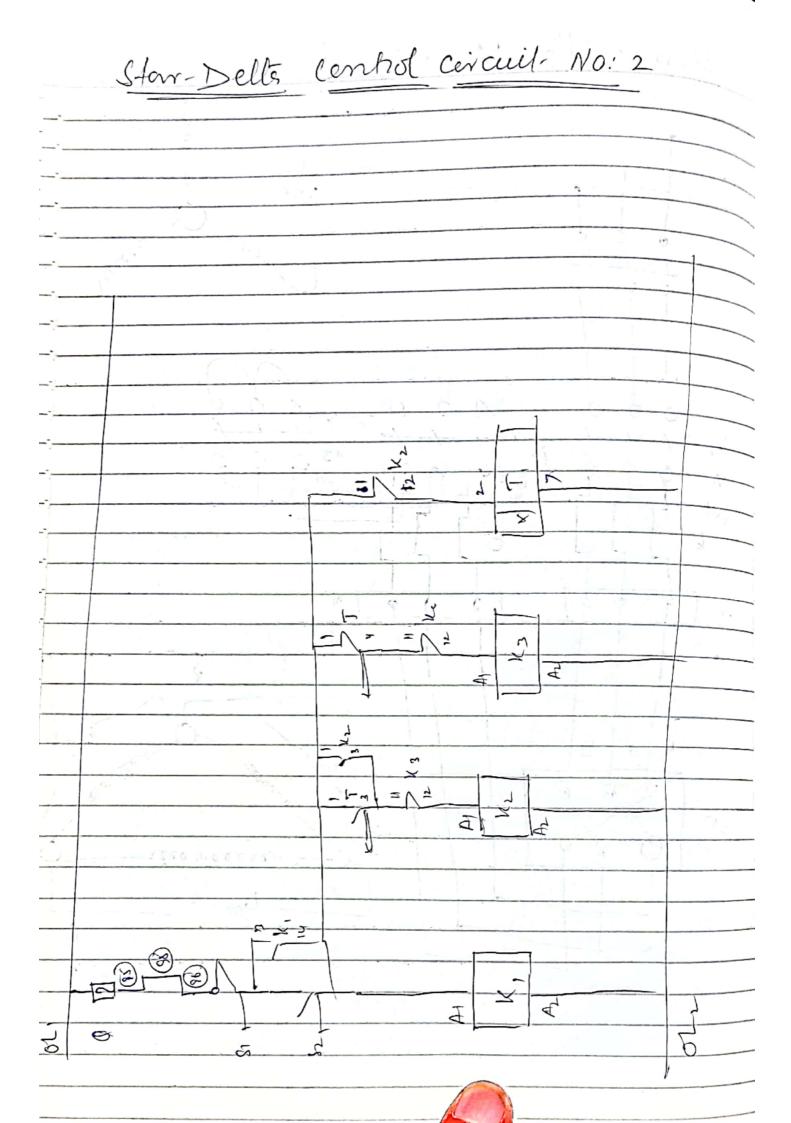
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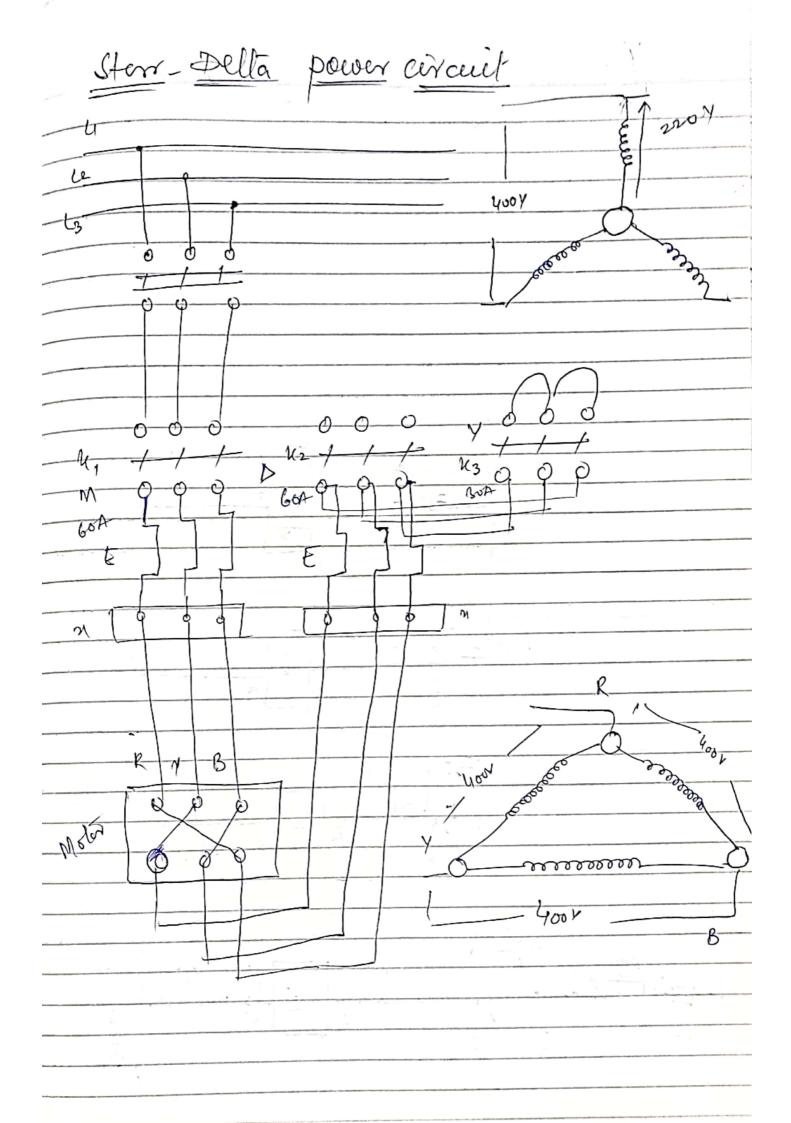
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Industrial Circuit No: 3 Star-Delta control circuit: Laircuit 6/02 121 4 Circuit & Or Bonter view) of (liveret) Der- Dells - Vi Gegue (29) Of Stow-Vac E Slaw Jose pol 2 dil Terminal

-coor Pella [comins] 100mins - Della (Terminal) Centactor 2 y or Ston - Delto Our Storr -Timing العي 15 Seconds

Storr-Delte control circul. No: 1 Š





1) (Bornelom) connection Red, Yellow, Blue 3-1 2030

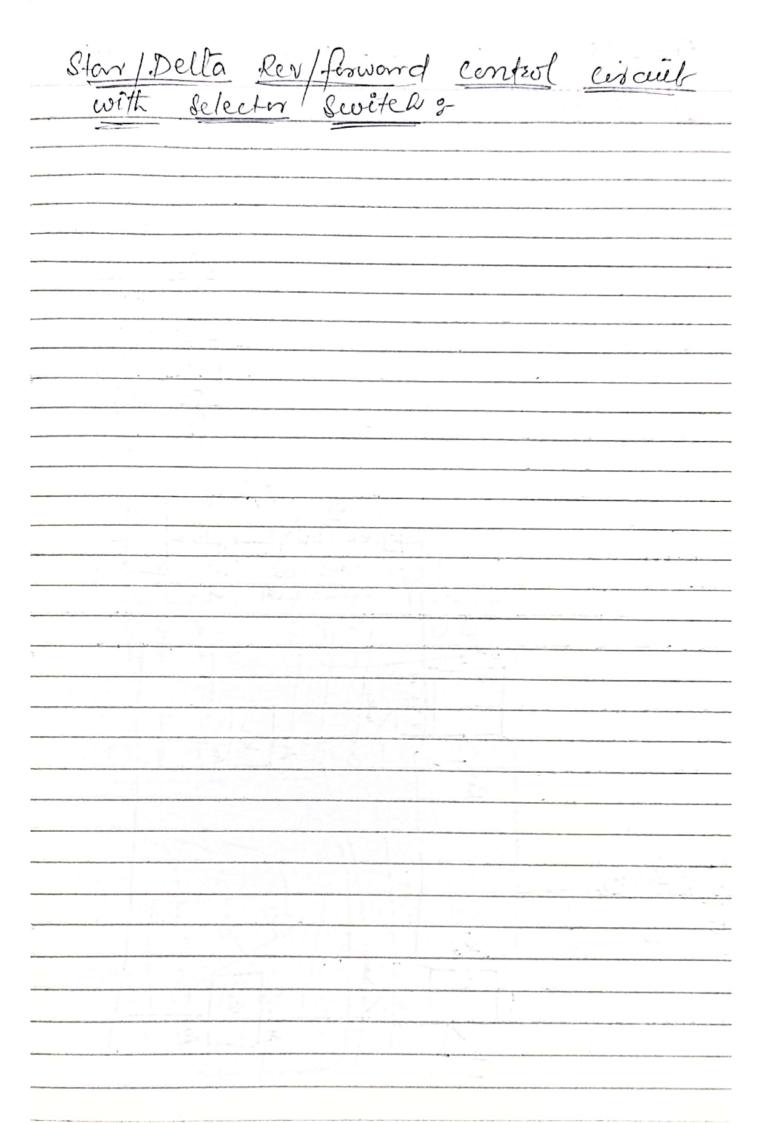
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wire It 65 jal Low En gr Interchange

or eit stor-della Inliver maker لو و0 Star-del 0 . 1

Star/delta Reverse forward power circuit W Fd **N**-

Reverse/forward storr-della control circuit with **(%)** Q 12



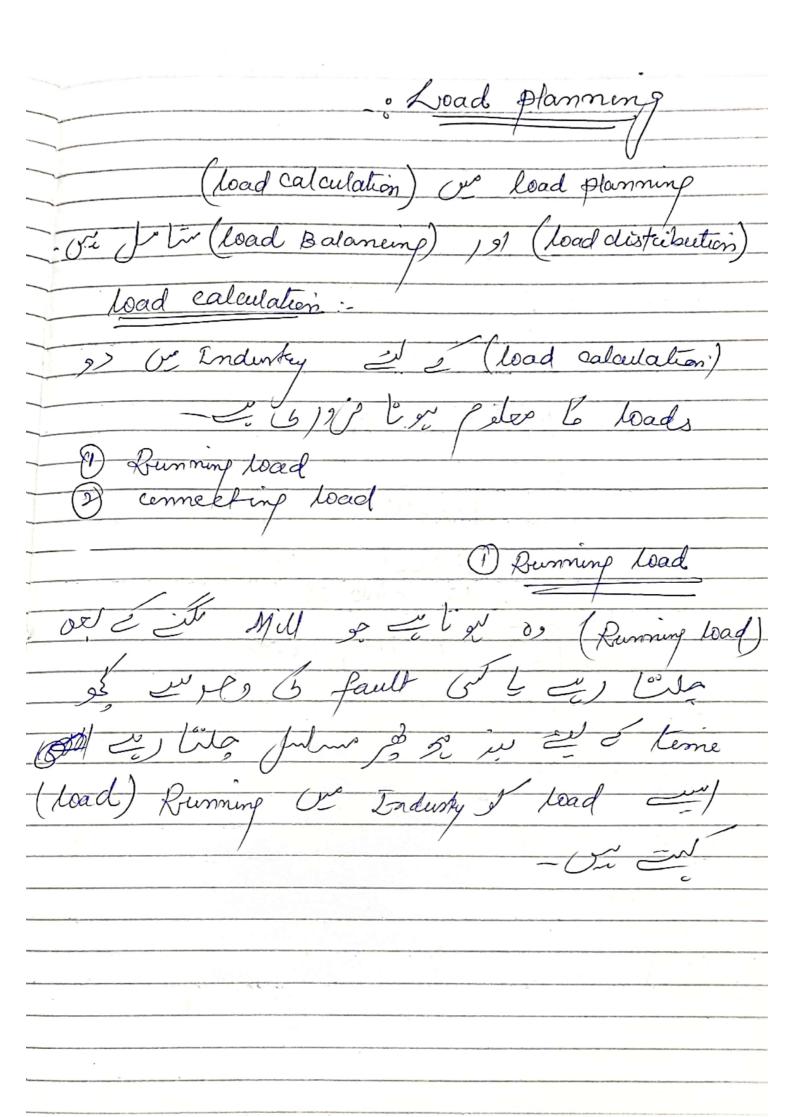
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operate on to One of por 3th M

enversion (5) /2 /3 Your por 3 10HP - 1 Agen V3 x /x I cosp V3 × Yxloss P= 13 VICOSØ = 38 746×10 = 1.732 V3x 400x0.9 11.864 Ampene B) 2 18 Amp 1, load by Pz N3 x VICOSP Pz V3×400×18×0. 11223,36

746 Elejejeni (+4) S watt) 13 go & 250 Kilowatz: 13 V3 X VI COSS V3 x I Cost 250x 1000 1.732 x 400x 0.8 400-94 + 20019-



connecting load 09 Connecting load time Connecting cu (Running) Cenneting load 19/ - 3 Endustrial calculation) load Selection of material wstry J Jos police (S) Just ou toad St & F 6 21 13 total

3 (Selection of material) & ve jus total wat Selection 1 & Dirage (S) power factor pennel o walf june for by low of wat 2 jus - (Source) (Source) (5 1/9 =

do it tipe (power) kilowatt i ca Electricaly in or over in I source is current- juic 00 (30) - 0 is leg leg leg jo K-NT our KVA & Kwaft الالا میں تیریل ارتے ہے لیے I by w kwatt & KVA of Kwall 50 HP = 75 Amp

ed dies floor Kurrent- 2d 2 1 pt - lus Sclivide en 198 623.52 inning Ampire) of overload 56 W Sef 6% Current 6 yes

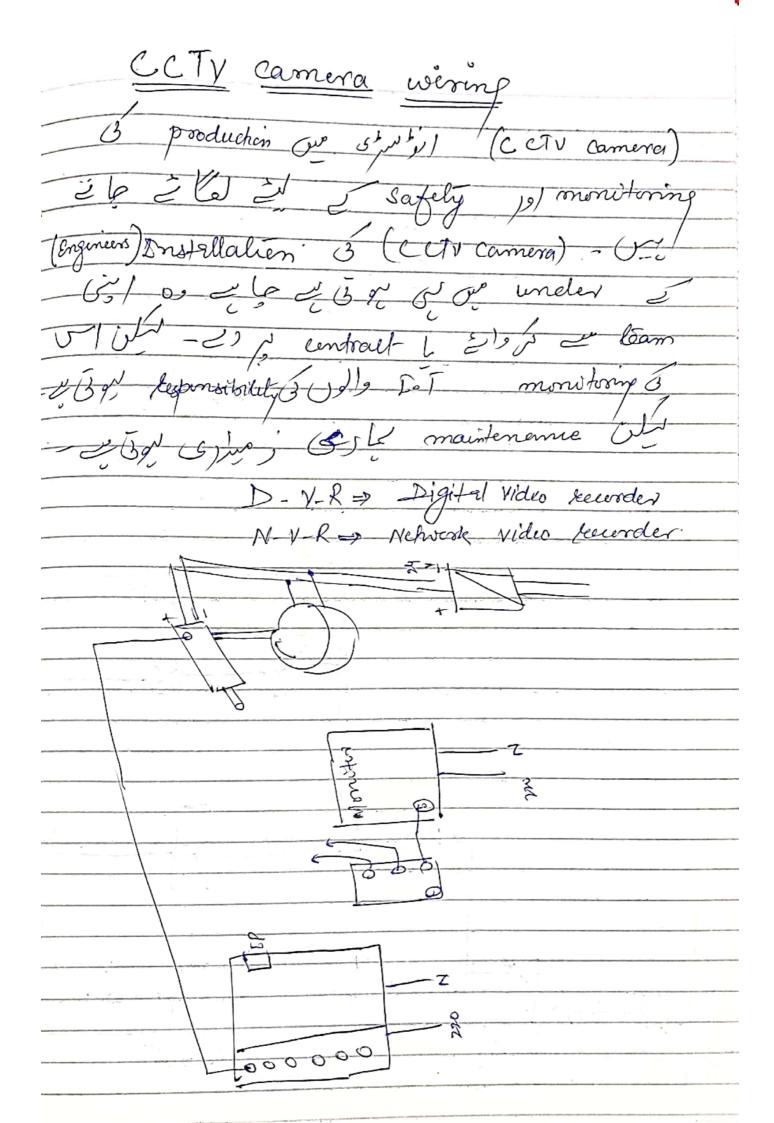
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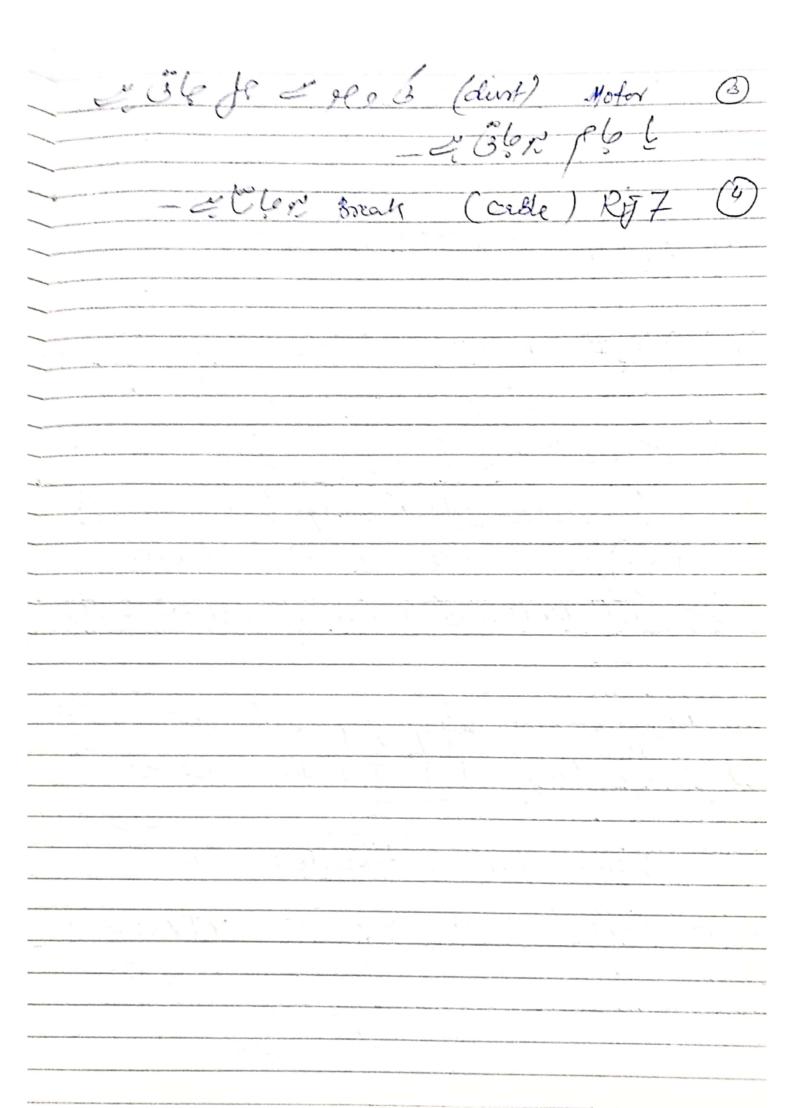
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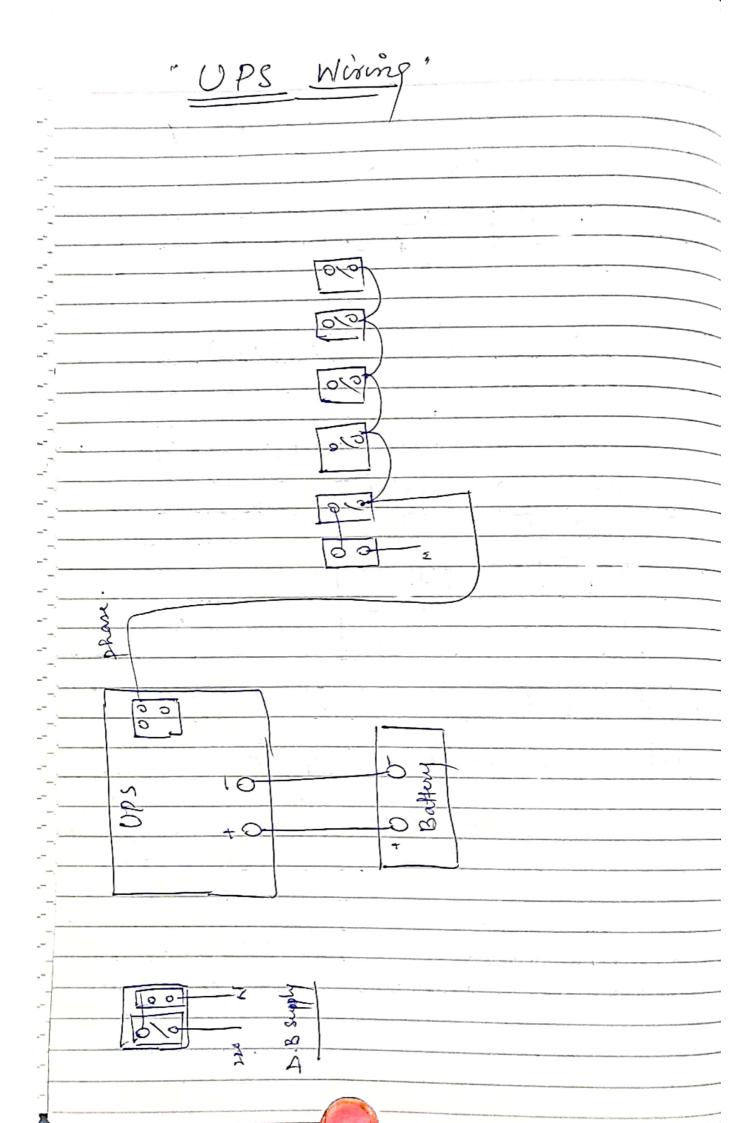
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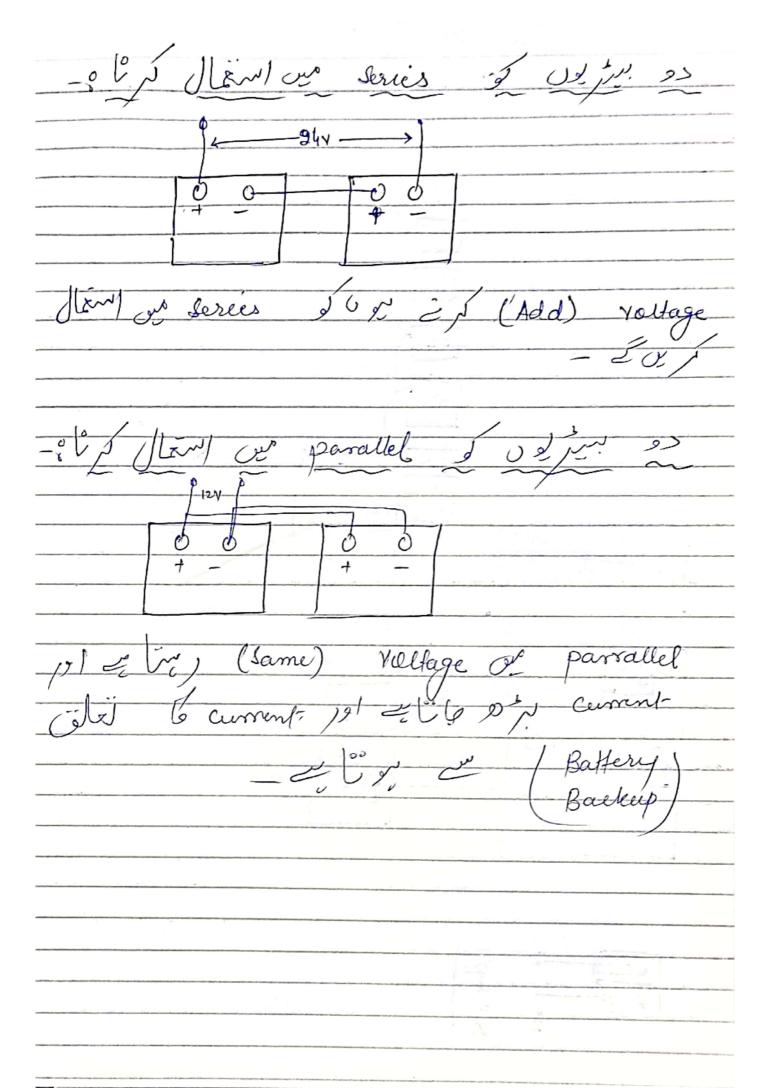
wow & times if I of lengts is wence of lights is to Leguence ટ્ટ



(cety camera) ou strution چنز جبزوں ما لاڑمی عمال رکھنا ord of caste tray of od (wine) Rj.7 L Channel & It 201-80= QTF) WDVR 12 = camera - Ely by out Joint - I wait of A Supply & carnera flexible & 3 core 2 2 supply & carnesa Ver I Col Location & Camera ! Maintenance & troubles Roofing 6 (adoplet) facelt soj. or (cet v camera) (loose) Connector

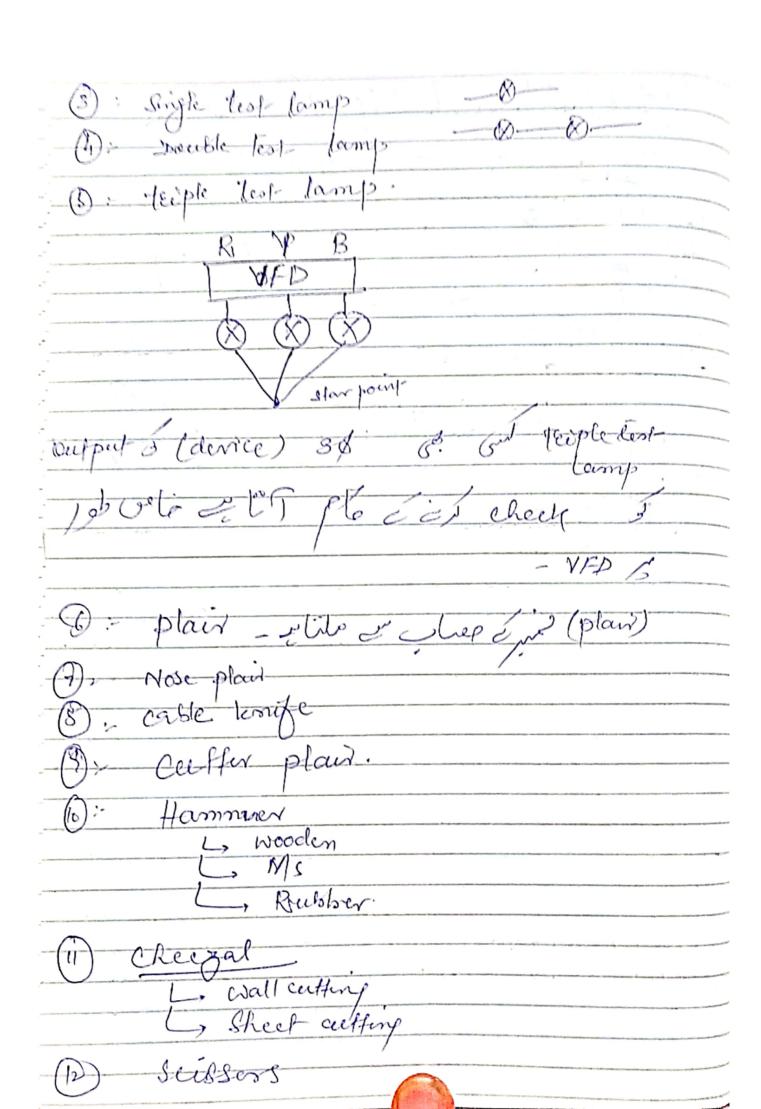


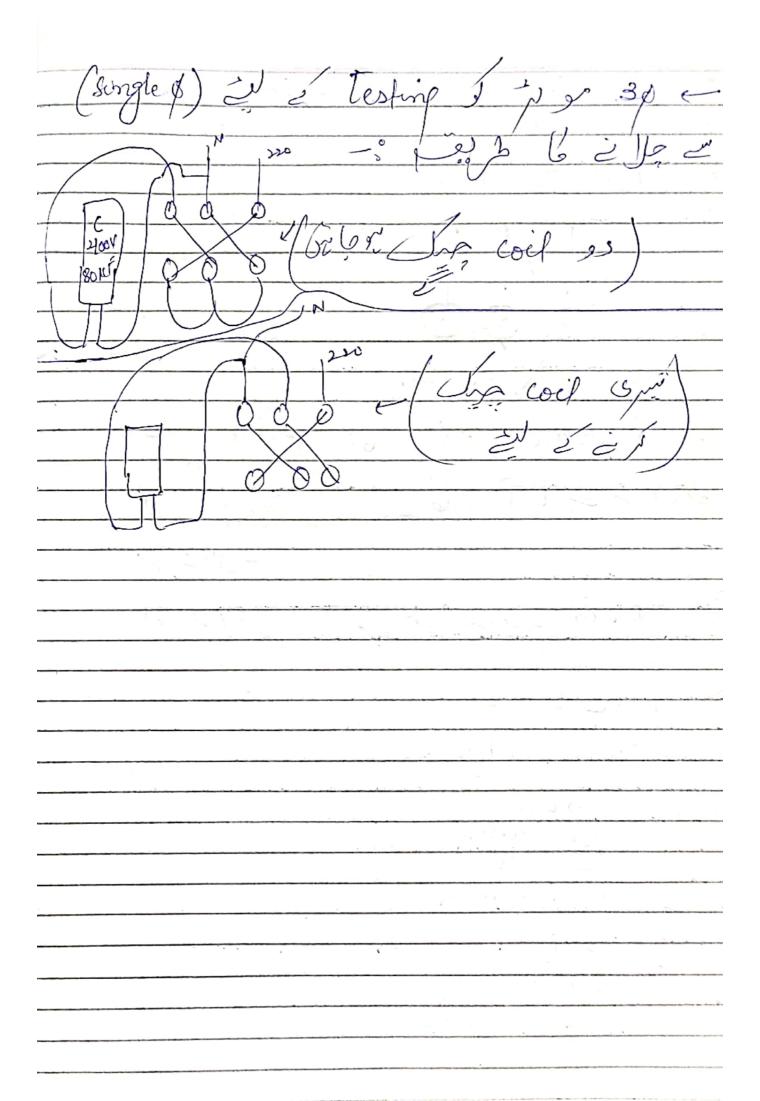




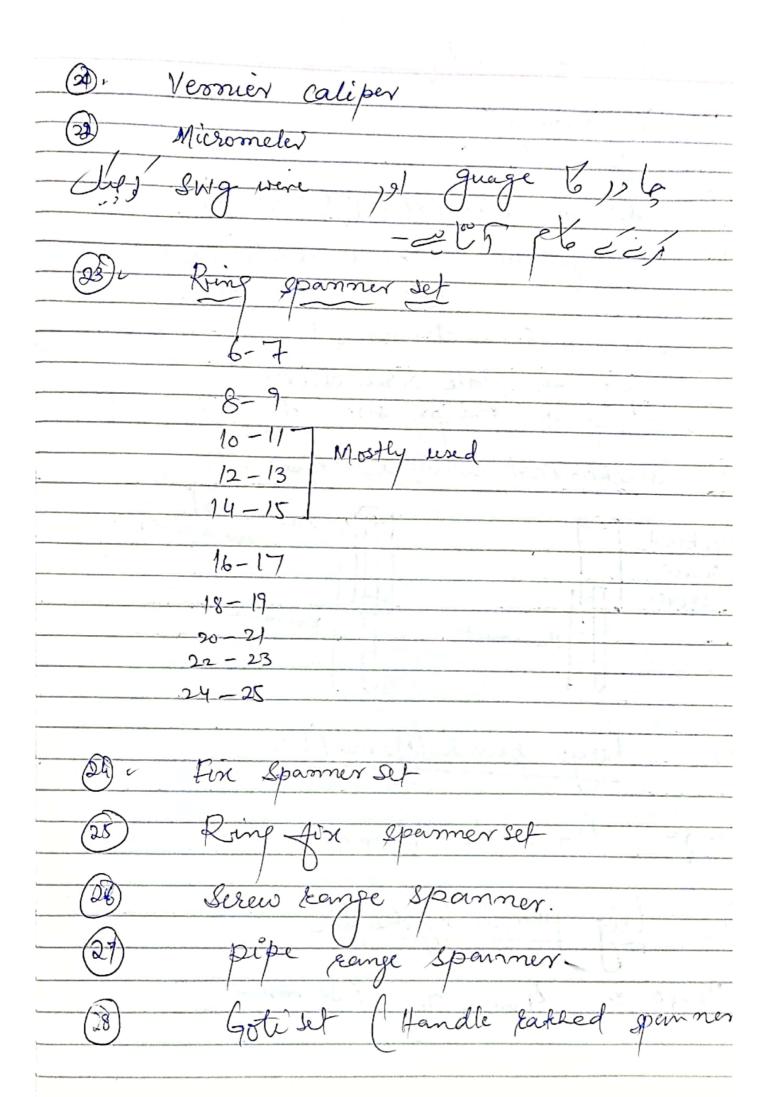
1000 walt = 5 10. 1000 - 12 => 83.33 200 - 83.33 => 2.40

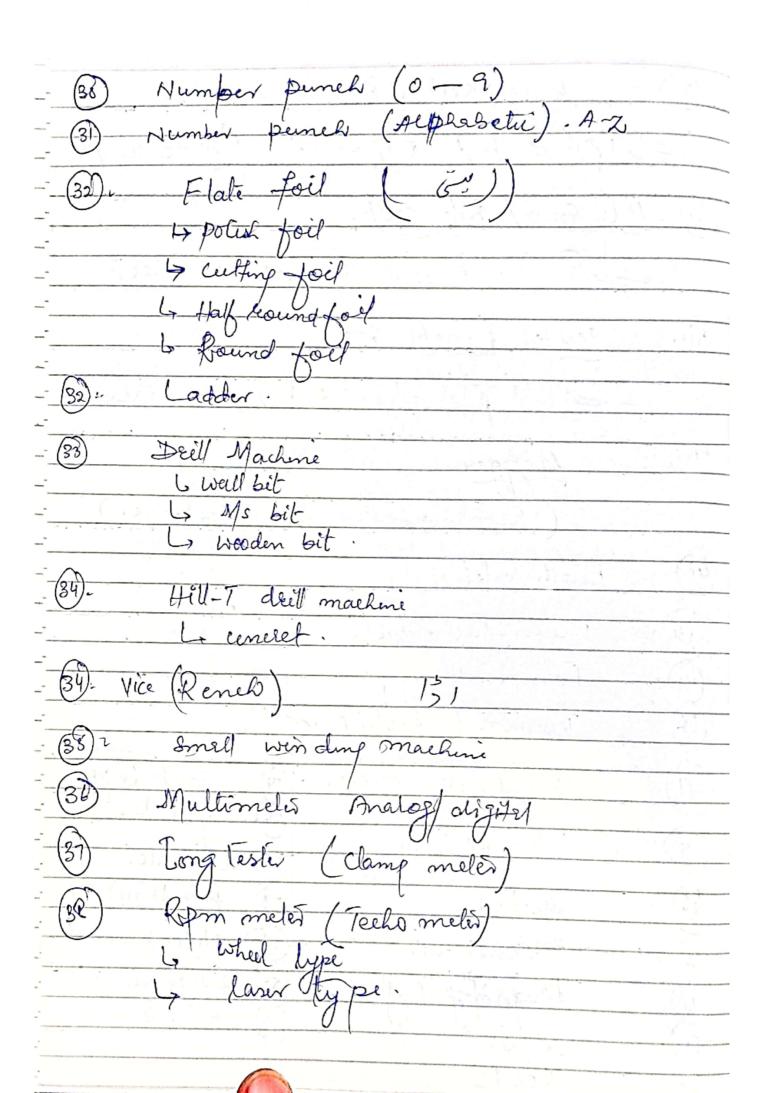
Tools & their uses Abroad 191 - et 1, eps 1 Engineer pix 2 looks Jeries Board 3¢ Series board. ind our (Series board) Mofer.

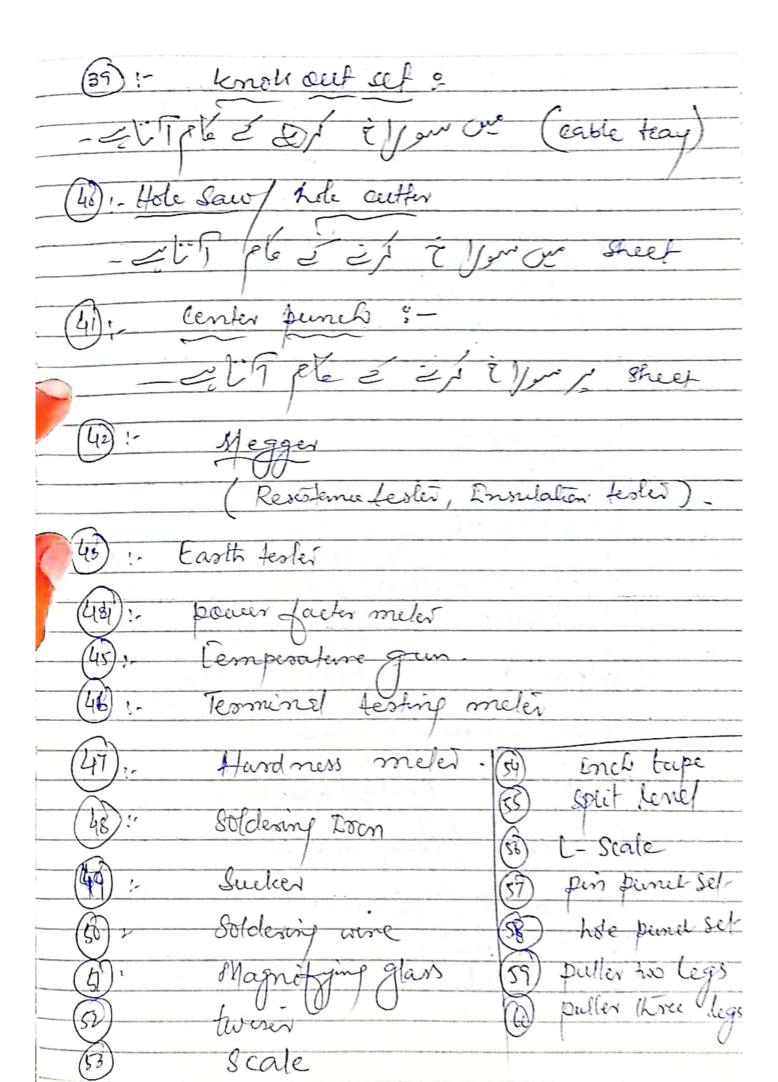




tools continued
Hemd lamp 14 Torch
Hexa frame: Single feeth blade Double teeth blade
- (1) Electoral Serew drever set - flate Serew drever - philips serew drever. - (18) Mechanical Serew drever set.
- Pleetorical - Perew elrever Gerew - Measurment - Measurment - Measurment
- (9). Legs punch (Manual) ?
- Renge 4 mm to 95 mm
Bange :- 4 mm & 680 mm







grinder Babby pland somer plan ouler blower-Centact cleaner dry Centact Cleaner Dely Beush WD40 Stay BOX

I (product) Bolls or vigin 19 - 5. 26 in this in 2 2 200 move 2 en (Entry) product 2, los JE 25 239 62) D'Y 25 S we istice & Roll on ogitie - 2 3 8 - 4 t le 3 ly 2 Roll Dompotant ever or red plais Ends U 20 2 i) of coll or It on Est Ex & Bearing of 2) fr. It dip ou (chemical) Doll L Tephlon 15 Ends vises & il is up - Juste Eld Blocks of Genibor 1 19 8/9 (18) (It) a synchia Geardox pl Och B & och ive

(.) in 1 191 - 101 (drive) Rody Ampostent 2 pump or Industry (8. machenes depend pump - 5 3 1 الل مل سے دوسری ملر بہنگا یا chemical & Jaims ~ Co W Maintein I Elle J Udes Auto/manual & Ugrino pum Não / Decomp Vaccume Dodustay